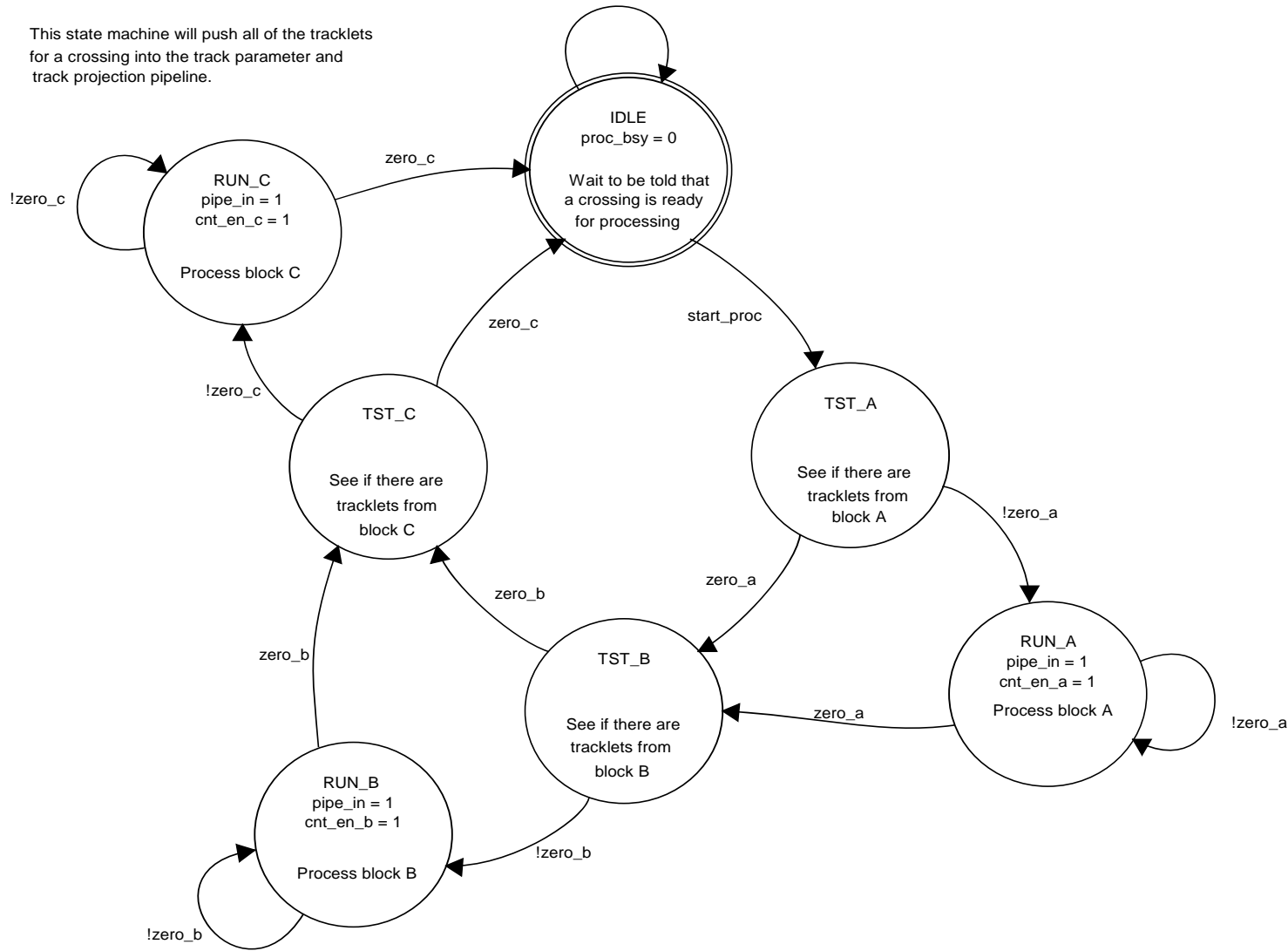


This state machine will push all of the tracklets for a crossing into the track parameter and track projection pipeline.



STATE MACHINE

name	TP_process_cross_sm	
clock	clk	posedge
reset_signal	res	positive
reset_state	IDLE	anyvalue
implied_loopback	1	

INPUTS

start_proc	Start processing tracklets
clk	Pipeline clock
res	Reset
zero_a	No more tracklets in block A
zero_b	No more tracklets in block B
zero_c	No more tracklets in block C

OUTPUTS

proc_bsy	1	comb	Actively processing a crossing, asserted in all except IDLE
pipe_in	0	comb	Inject a 1 into the pipeline
cnt_en_a	0	comb	Enable counter A
cnt_en_b	0	comb	Enable counter B
cnt_en_c	0	comb	Enable counter C

STATES

proc_bsy	1	output	Actively processing a crossing, asserted in all except IDLE
pipe_in	0	output	Inject a 1 into the pipeline
cnt_en_a	0	output	Enable counter A
cnt_en_b	0	output	Enable counter B
cnt_en_c	0	output	Enable counter C

TRANSITIONS

equation	1	def_type
priority	1000	